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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/780,210	02/17/2004	Raj Manakkal	01014-1006	9914

7590 12/13/2005
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EXAMINER

LIEU, JULIE BICHNGOC

ART UNIT	PAPER NUMBER
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2636

DATE MAILED: 12/13/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

10/780,210

Applicant(s)

MANAKKAL, RAJ

Examiner

Julie Lieu

Art Unit

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☐ Responsive to communication(s) filed on 16 November 2005.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 18-27 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 18-27 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☐ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____.
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: _____.

DETAILED ACTION

1. This office action is in response to RCE and amendment filed November 16, 2005. Claims 18, 20, 21, and 23 have been amended. New claims 25-27 have been added.
2. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

Claim Rejections - 35 USC § 112

3. The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

Claims 18-23 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention.

The reference fails to disclose four wire leads while claims 18 and 28 recite four wire leads.

Claim Rejections - 35 USC § 102

4. Claims 18-19 are rejected under 35 U.S.C. 102(b) as being anticipated by Huang (US Patent No. 6,194,998).

Claim 18:

Huang discloses a device, thus, a method for replacing a valve stem, comprising:

- a. Disconnecting a wire lead 65 coupled to a valve pin 80a disposed within the valve stem from a terminal 51 of a battery
- b. Replacing a valve stem; and
- c. Connecting a lead 65 coupled to a valve pin disposed within the replaced valve stem with the terminal of the battery.

See figure 2.

Claim 19:

The battery 5 is coupled to a tire pressure sensor 4.

Claim 20:

In Huang, when threaded connector 71 is disconnected from 60, the connector is disconnected from the wire lead of another terminal 52 of the battery, and when a new valve stem is connected, the threaded connector 70 of the new valve stem is connected to the wire lead 84 of the other terminal 52 of the battery.

Claim 21:

Huang discloses a device, thus, a method for replacing a valve stem, comprising:

- a. Disconnecting a valve pin 80a disposed within the valve stem from a terminal 51 of a battery;

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- b. Removing a valve stem;
- c. Inserting a new valve stem; and
- d. Connecting a valve pin disposed within the new valve stem with the terminal 51 of the battery.

See figure 2.

Claim 22:

The battery 5 is coupled to a tire pressure sensor 4.

Claim 23:

In Huang, when threaded connector 71 is disconnected from 60, the connector is disconnected from the lead of another terminal 52 of the battery and when a new valve stem is connected, the threaded connector 70 of the new valve stem is connected to the lead of the other terminal 52 of the battery.

Claim Rejections - 35 USC § 103

5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

The factual inquiries set forth in *Graham v. John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

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1. Determining the scope and contents of the prior art.
2. Ascertaining the differences between the prior art and the claims at issue.
3. Resolving the level of ordinary skill in the pertinent art.
4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

6. Claims 24-27 rejected under 35 U.S.C. 103(a) as being unpatentable over Huang (US Patent No. 6,194,998).

Claim 24:

Huang discloses a valve stem apparatus comprising:

- a. A valve pin 80a coupled to a first terminal 51 of a battery via a first battery contact 65; and
- b. A threaded connector 71 coupled to a second terminal 52 of a battery wherein the valve stem apparatus is replaced by disconnecting the first battery contact from the first terminal and the second battery contact 90 from the second terminal 52.

Though the battery contacts 65 and 90 are not “wire” lead, they are functionally equivalent as wire leads.

Claim 25:

The battery 5 is coupled to a tire pressure sensor 4.

Claims 26 and 27:

No connectors are shown in Huang to connect the wire leads/battery contacts to either the valve pin or the battery terminals. However, one skilled in the art would have readily recognized that there are connections made by the battery contacts and the battery terminals.

Remarks

7. Applicant's arguments 11/16/05 have been considered but are moot in view of the new ground(s) of rejection.

Conclusion

8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Julie Lieu whose telephone number is 571-272-2978. The examiner can normally be reached on MaxiFlex.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jeffrey Hofsass can be reached on 571-272-2981. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



Julie Lieu
Primary Examiner
Art Unit 2636

Jun. 10, 05